

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
13 November 2003 (13.11.2003)

PCT

(10) International Publication Number
WO 03/093480 A2(51) International Patent Classification⁷: C12N 15/65

(21) International Application Number: PCT/CA03/00621

(22) International Filing Date: 2 May 2003 (02.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/376,879	2 May 2002 (02.05.2002)	US
60/377,231	3 May 2002 (03.05.2002)	US

(71) Applicants and

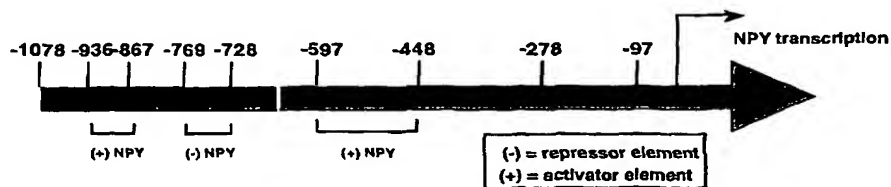
(72) Inventors: BELSHAM, Denise [CA/CA]; 190 Clendenan Avenue, Toronto, Ontario M6P 2X2 (CA). LOVEJOY, David [CA/CA]; 149 Baker Street, Stouffville, Ontario L4A 1K6 (CA).(74) Agent: **BERESKIN & PARR**; 40 King Street West, 40th Floor, Toronto, Ontario M5H 3Y2 (CA).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

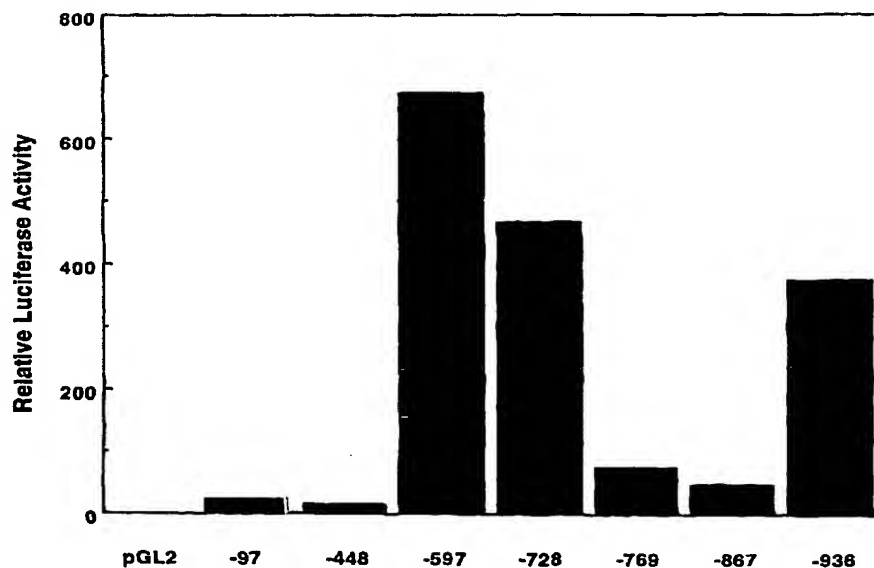
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: IMMORTALIZED HYPOTHALAMIC NEURONAL CELL LINES



NPY 5' Regulatory Region in NPY-17 Neurons



(57) Abstract: The present invention is directed to a method of preparing cell lines of hypothalamic origin. The method involves infecting fetal hypothalamic cells with a retroviral vector harbouring a viral oncogene, preferably SV-40 large T antigen, followed by selection and cloning. A plurality of cell lines have been prepared which express a variety of neuronal markers. The cell lines of the present invention are useful in the development of experimental models and in the treatment of disease.

BEST AVAILABLE COPY

WO 03/093480 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.